

REMARKS

The claims have been amended to remove multiple dependencies. The specification has been amended to indicate that the international application was published in English, and to include an abstract.

Favorable consideration of all pending claims is earnestly solicited.

Attached hereto as **APPENDIX A** is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**VERSION WITH MARKINGS TO SHOW CHANGES MADE.**"

Respectfully submitted,

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Louis S. Sorell
Patent Office Reg. No. 32,439

Janet M. MacLeod
Patent Office Reg. No. 35,263

BAKER BOTTS L.L.P.
30 Rockefeller Plaza
New York, New York 10112-0228

Attorneys for Applicant
(212) 408-2620

APPENDIX A

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

At page 1, after the title, the following paragraph was inserted:

--This application is a 371 of international application PCT/EP00/01524
which was published in English.--

IN THE ABSTRACT:

After the claims, the attached single page containing the abstract was
inserted.

IN THE CLAIMS:

Claims 4, 6-7, and 9-16 have been amended as follows:

4. (Amended) A chimeric DNA construct according to [any of claims]
claim 1 [to 3], wherein said plant-specific sequence codes for at least a DNA-binding
domain of a plant transcription factor.

6. (Amended) A chimeric DNA construct according to [any of claims]
claim 1 [to 3], wherein said plant-specific sequence activates transcription by interacting
with a DNA-binding protein.

7. (Amended) A chimeric DNA construct according to [any of claims]
claim 1 [to 6], further comprising a sequence that encodes at least the hormone-binding
domain of a steroid hormone receptor, said sequence being in frame with the fusion
construct consisting of at least one repressor sequence in transcriptional fusion with at
least one plant-specific sequence that codes for a protein or fragment thereof that
activates transcription either by binding to DNA itself or by interacting with a DNA-
binding protein;

whereby the nuclear localization of the chimeric protein, that is the product of the translation of said fusion construct is dependent on the application of said steroid hormone or analogues thereof.

9. (Amended) A chimeric DNA construct according to [any of claims] claim 1 [to 8], wherein the elements allowing the transcription of said repressor sequence comprise a constitutive promoter.

10. (Amended) A host cell transformed with a DNA construct according to [any of] claim 1 [to 9].

11. (Amended) A transgenic plant or parts thereof, said plant being transformed with a DNA construct according to [any of claims] claim 1 [to 9], or deriving from [a] said plant [initially transformed with a DNA construct according to any of claims 1 to 9].

12. (Amended) A method of obtaining a transgenic plant [according to any of claims 10 or 11], wherein a DNA construct according to [any of claims] claim 1 [to 9] is transferred and expressed in a plant cell and said cell is cultured under conditions for regenerating a whole transgenic plant.

13. (Amended) Use of a chimeric DNA construct according to [any of claims] claim 1 [to 9] for inhibiting the expression of a target gene in the genome of a plant [, the transcription of which is activated by a protein encoded by a plant-specific sequence as defined in any of claims 1 to 9].

14. (Amended) A method for determining the function of a transcription factor in plants, comprising the steps of:

i) fusing a sequence encoding said transcription factor to a repressor sequence to form a DNA construct as defined in [any of claims] claim 4 [to 9];

- ii) transforming plant cells with said DNA construct;
- iii) culturing the plants obtained from the transformed cells and observing a phenocopy of a mutation correlated with the loss of expression of genes controlled by said transcription factor.

15. (Amended) A method for identifying new genes in plants, comprising the steps of:

- i) obtaining transgenic plants transformed with a chimeric DNA construct according to [any of claims] claim 1 [to 6];
- ii) comparing the RNA population from said transgenic plants with the RNA population of a plant that has not been transformed with [a] said chimeric DNA construct [according to any of claims 1 to 6], by amplifying the RNAs repressed by expression of the chimeric DNA construct, identified as genes inactive in said transgenic plants obtained in step i) but active in the plant that has not been transformed with a chimeric DNA construct.

16. (Amended) A method for identifying new genes in plants, comprising the steps of:

- i) obtaining transgenic plants transformed with a chimeric DNA construct according to [claims] claim 7 [or 8], comprising a sequence that encodes at least the hormone-binding domain of a steroid hormone receptor [, and/or according to claim 9, comprising an inducible promoter];
- ii) submitting said transgenic plants to an induction by means of a steroid hormone or analogues thereof [and/or promoter inducer], whereby a phenocopy is created due the loss of expression of target genes;
- iii) comparing the RNA populations from said transgenic plants before

and shortly after induction, by amplifying the RNAs repressed by expression of the chimeric DNA construct, identified as genes active before but inactive after induction.